



(19)

(11) Publication number: **1116**

Generated Document.

PATENT ABSTRACTS OF JAPAN

(21) Application number: **10257005**

(51) Intl. Cl.: G06F 3/06 G06F 3/06

(22) Application date: **10.09.98**

(30) Priority:	16.09.97 US 97 932812	(71) Applicant: HEWLETT PACKARD C
(43) Date of application publication:	18.06.99	(72) Inventor: VOIGT DOUGLAS L AHLVERS RICHELLE L DOLPHIN WADE A
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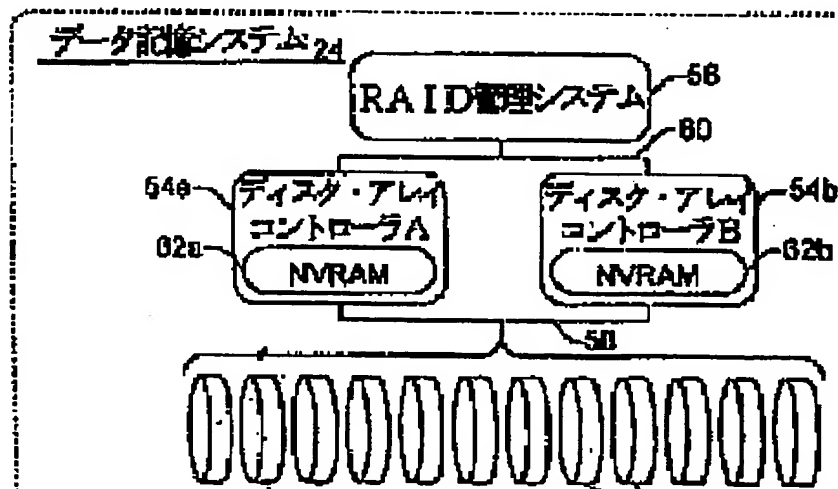
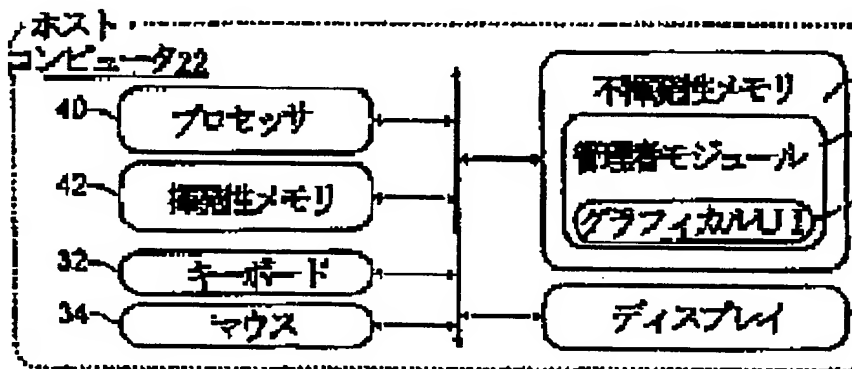
(54) **MEMORY
MANAGEMENT SYSTEM
FOR DATA STORAGE
SYSTEM**

(57) Abstract:

PROBLEM TO BE SOLVED: To calculate the storage capacity on a data storage system usable for storing additional data and to report it to a manager.

SOLUTION: A manager module 46 requests the input of logical storage unit (LUN) arrangement to a host computer 22 to the manager and the manager designates the type and size of LUN for each new LUN. A redundant array of individual disk (RAID) managing system 56 combines the proposed hypothetical LUN and existing LUN arrangement, calculates the memory space consumption of cache type LUN, RAID1 type LUN, automatic RAID type LUN and reports the usable capacity in the case of estimating the preparation/addition of the hypothetical LUN to the

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of the hypothetical LUN to the manager. When the space for the hypothetical LUN is not sufficient, it is reported the usable physical space is not sufficient. When the manager wants to generate the real LUN having the same characteristics as the hypothetical LUN, the designated LUN is generated.

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